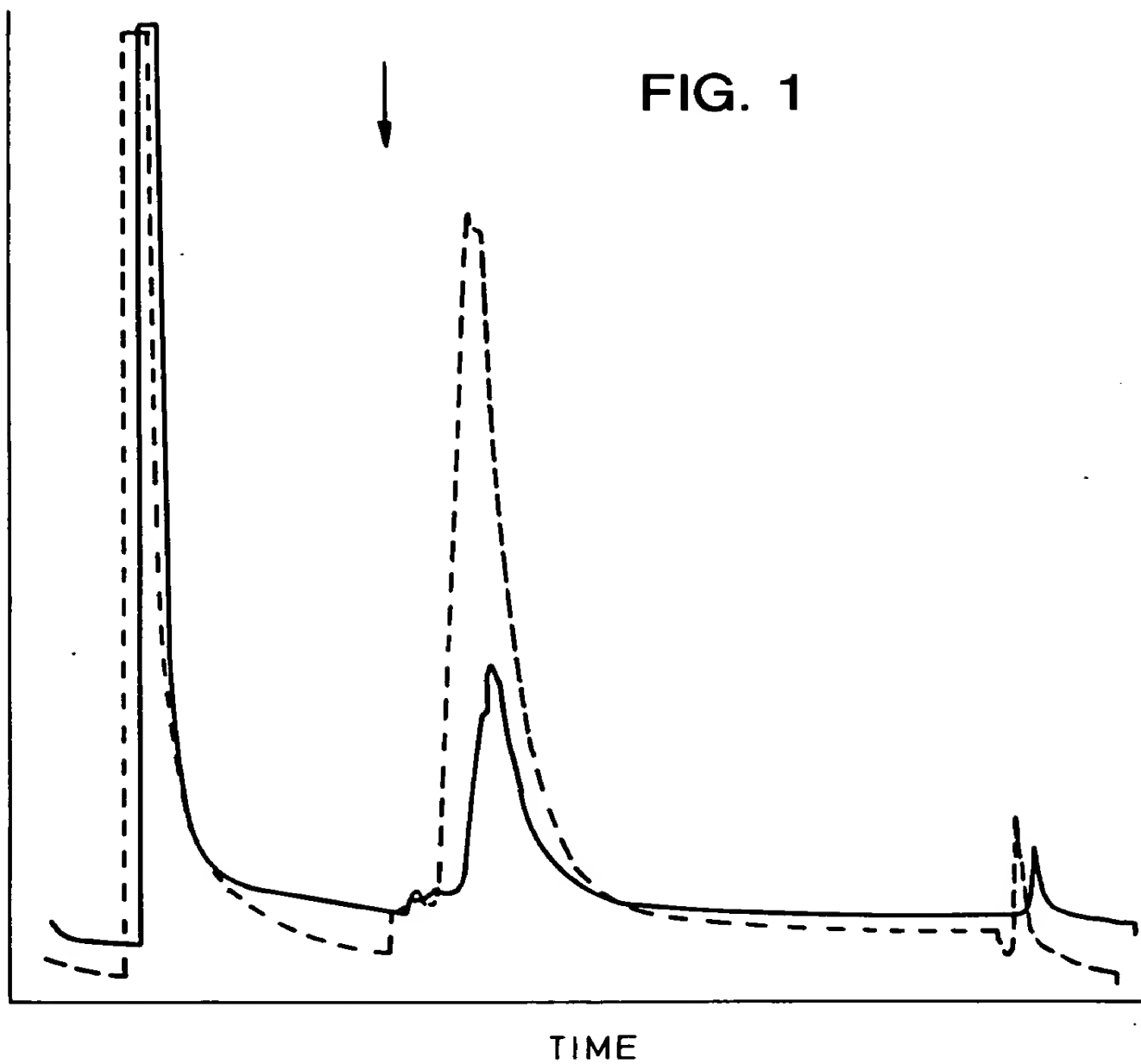


FOOT 20909400

A280nm



FOI 80569460

FIG. 2A

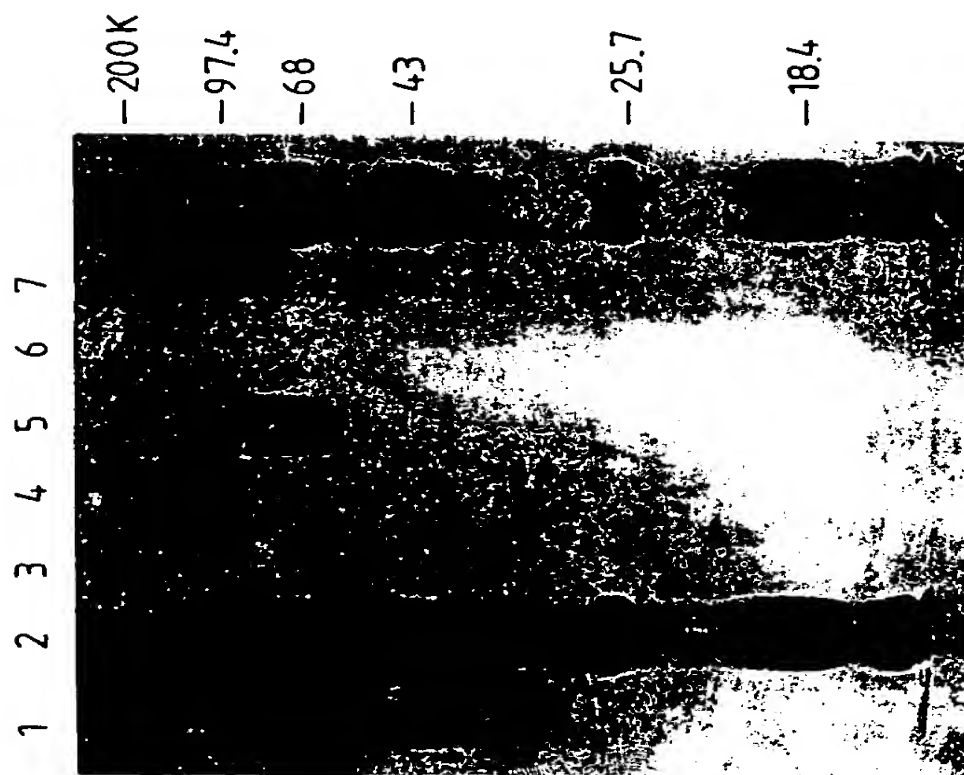


FIG. 2B

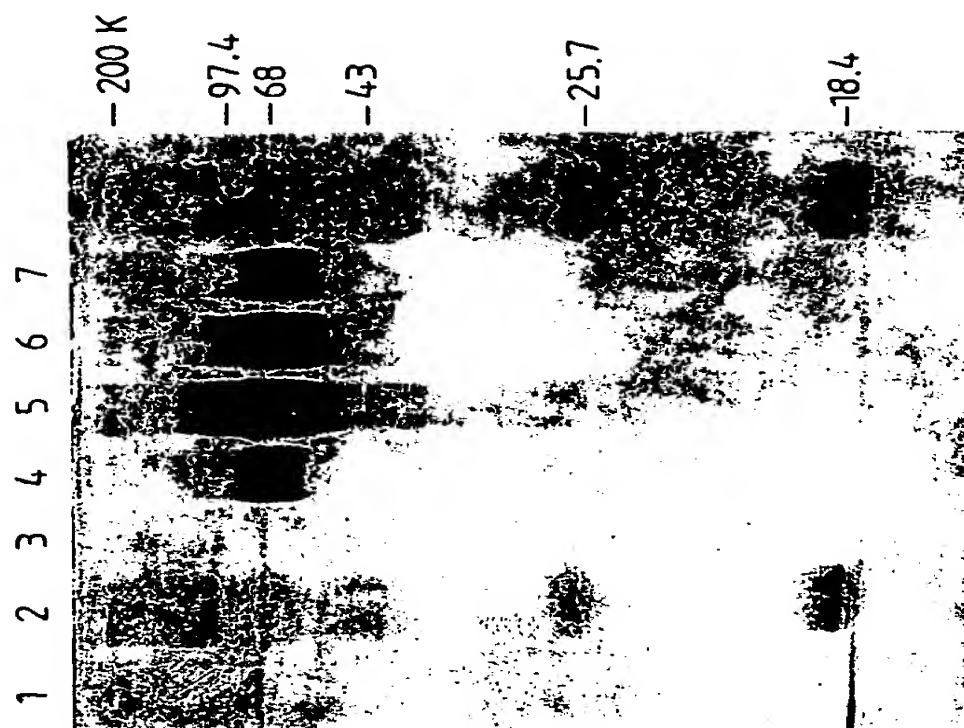
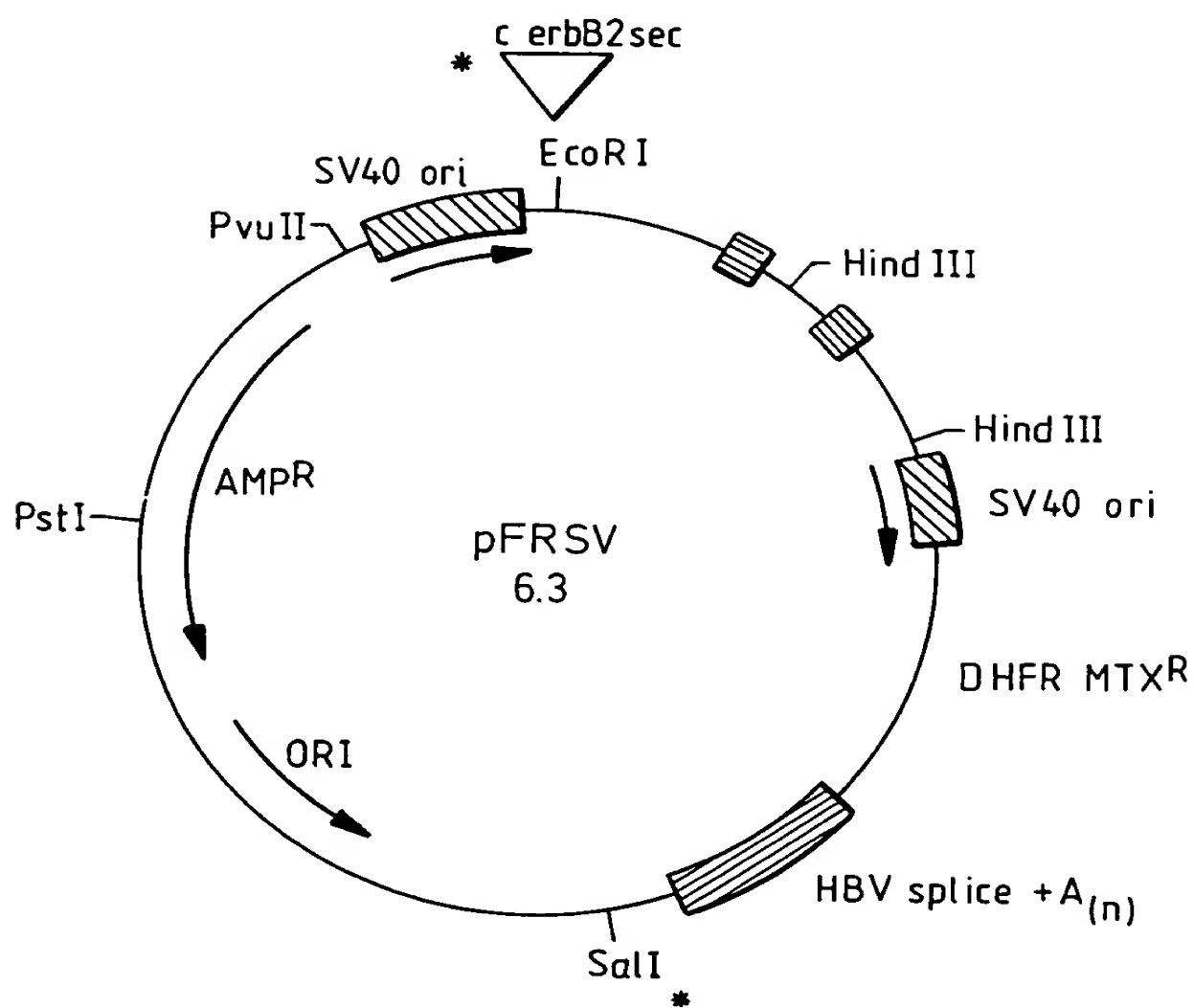


FIG. 3



007693.001704

FIG. 4



FIG. 5

Radioimmunoprecipitation of gp75 from SKBR3 Supernatant

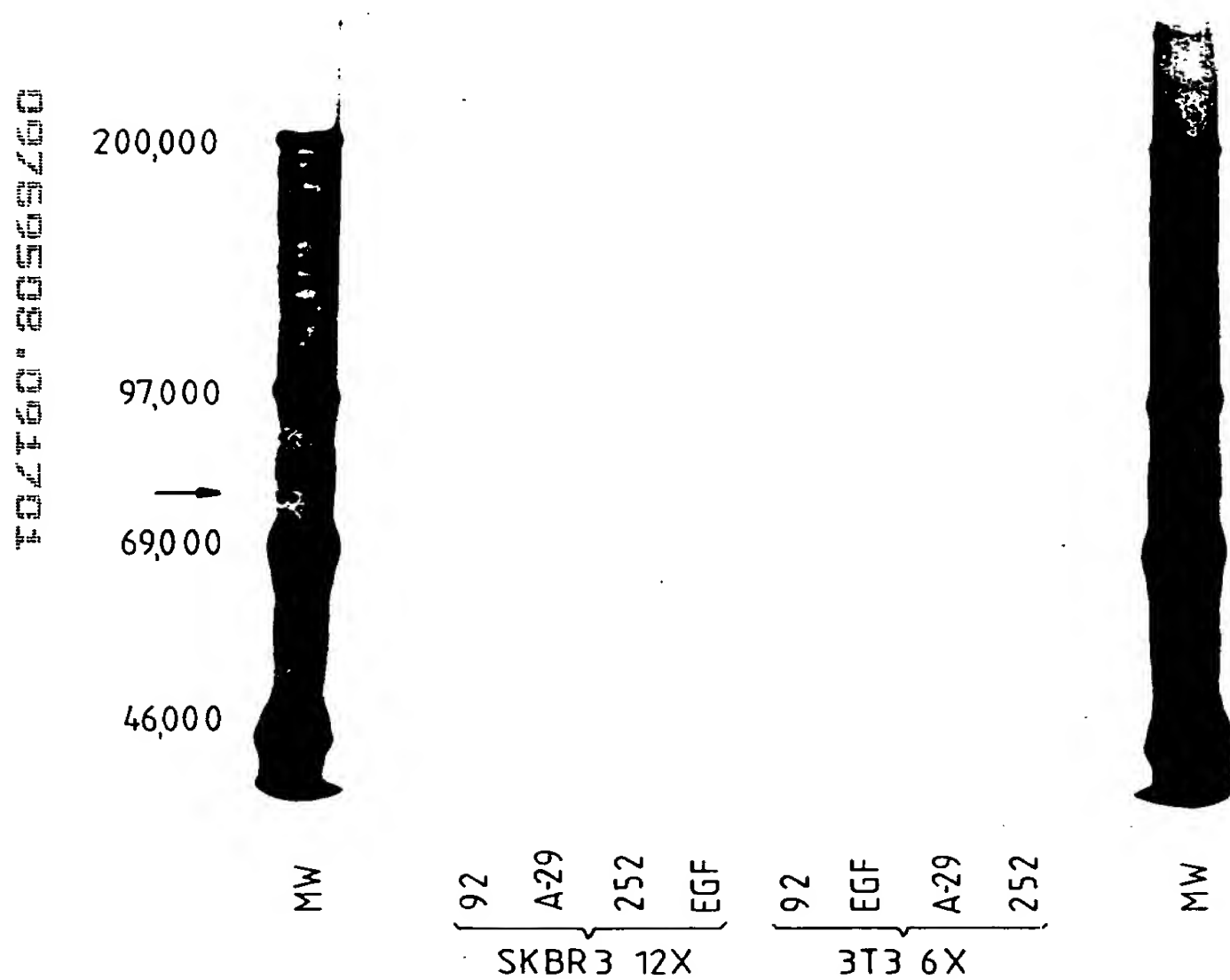


FIG. 6

Radioimmunoprecipitation of Supernatants From Various Cell Lines

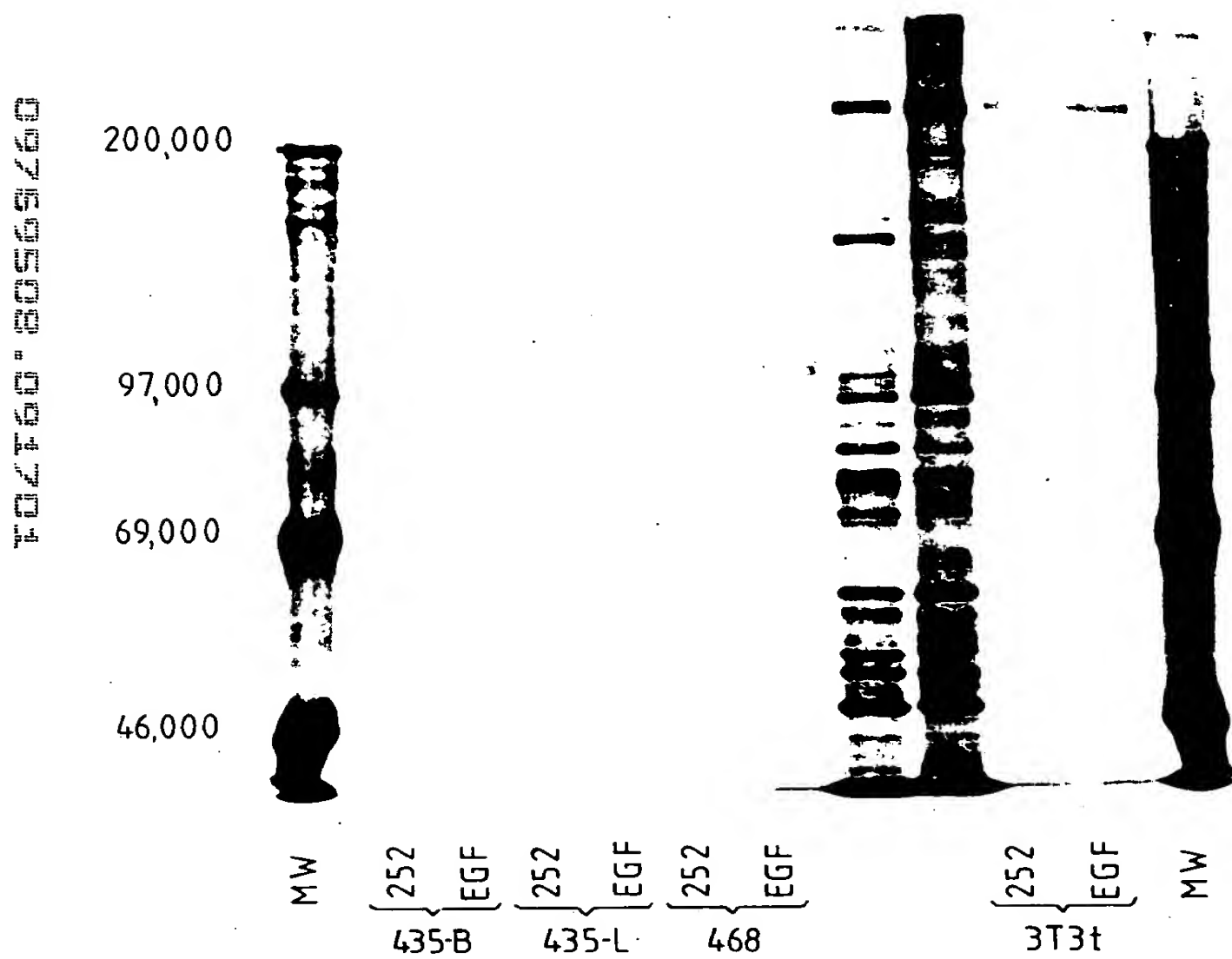


FIG. 7

Comparison of Standards in Sandwich IRMA

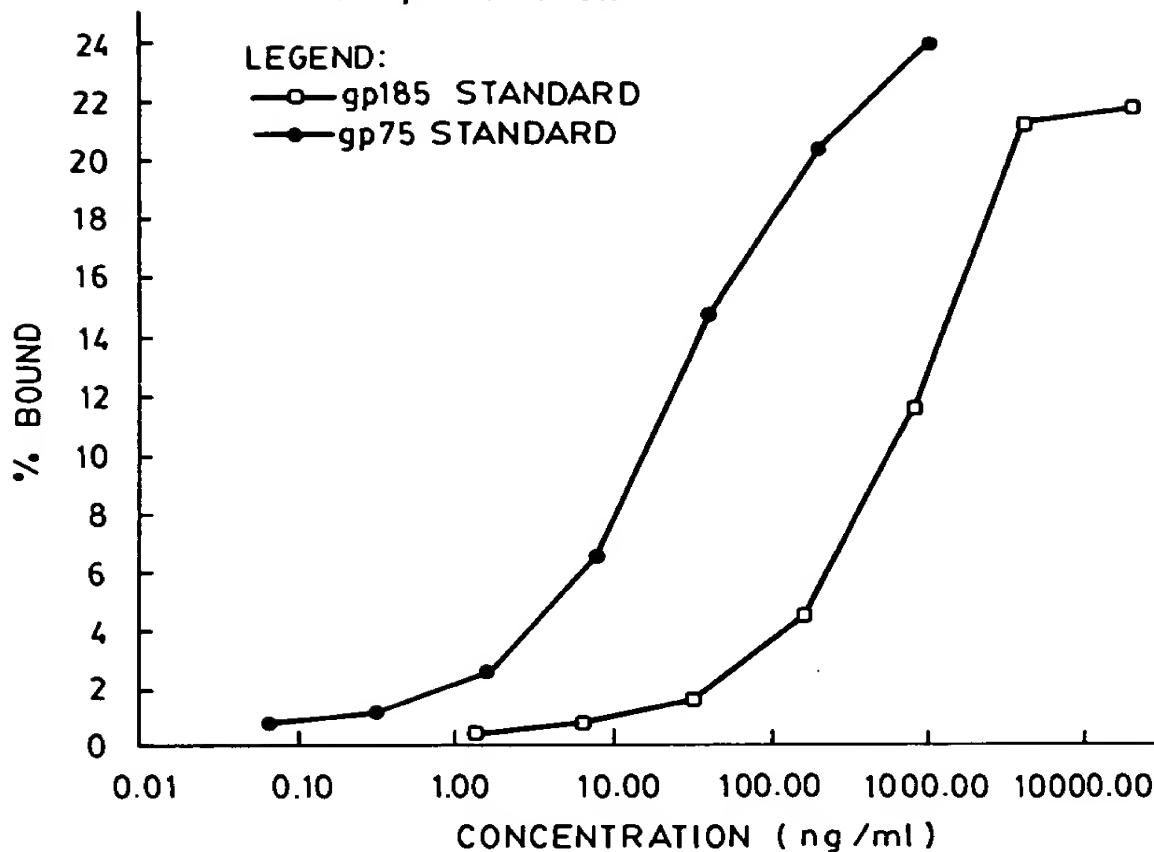


FIG. 8

Analysis of Nude Mouse Sera In c-erbB-2 IRMA

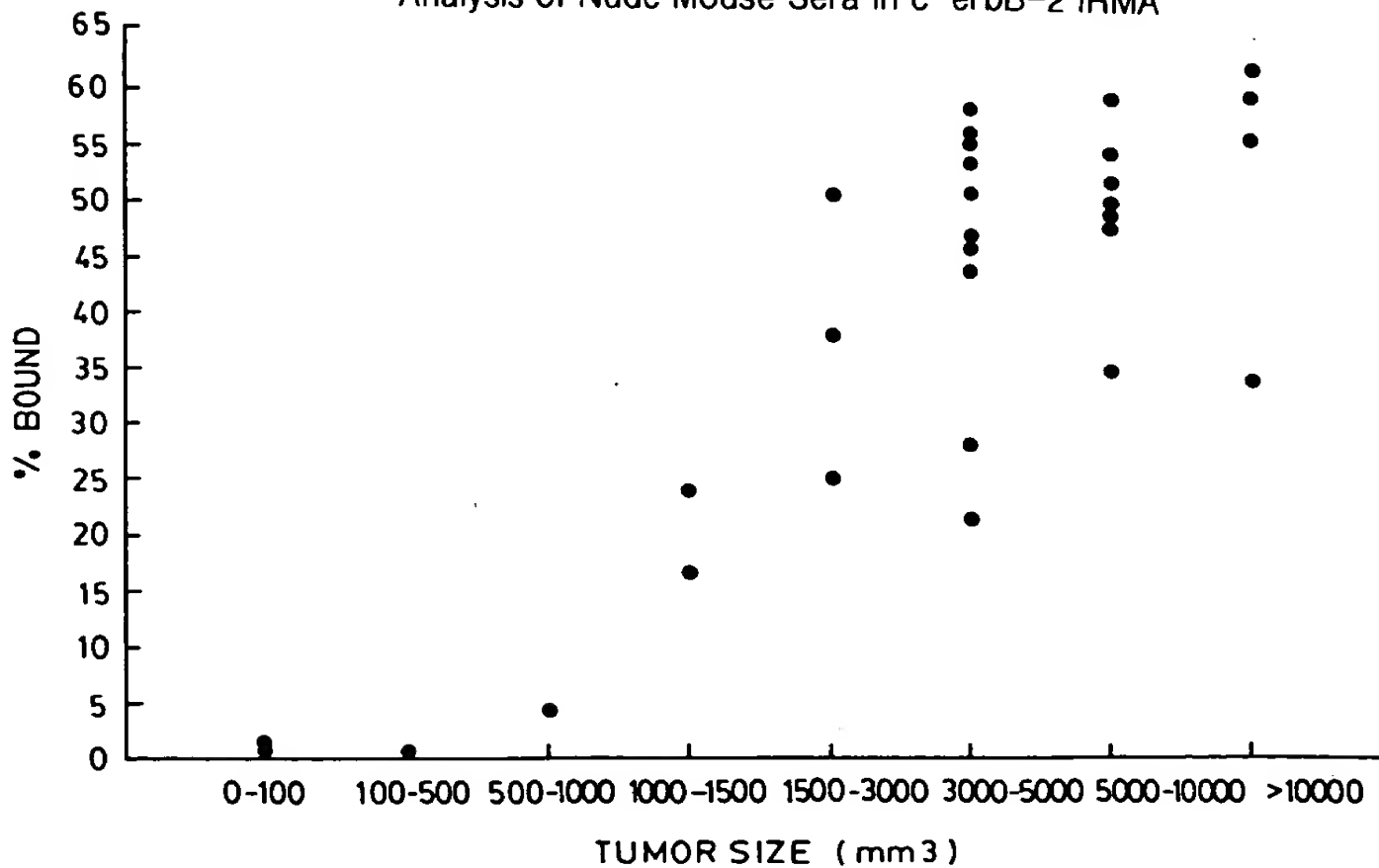


FIG. 9

Analysis of Nude Mouse Sera in the c-erbB-2 IRMA
Treated vs. Untreated

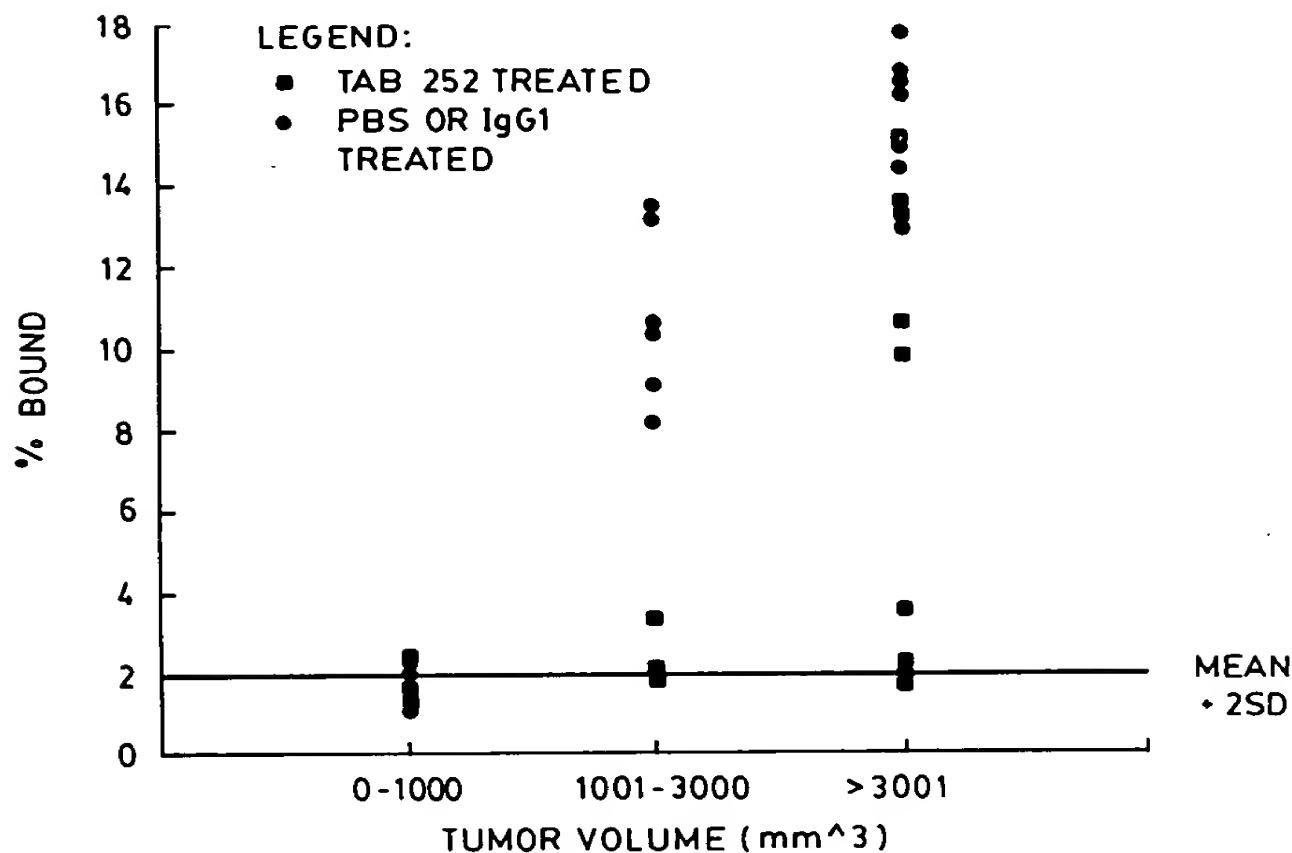


FIG. 10

Analysis of Normal Human Sera in the c-erbB-2 IRMA

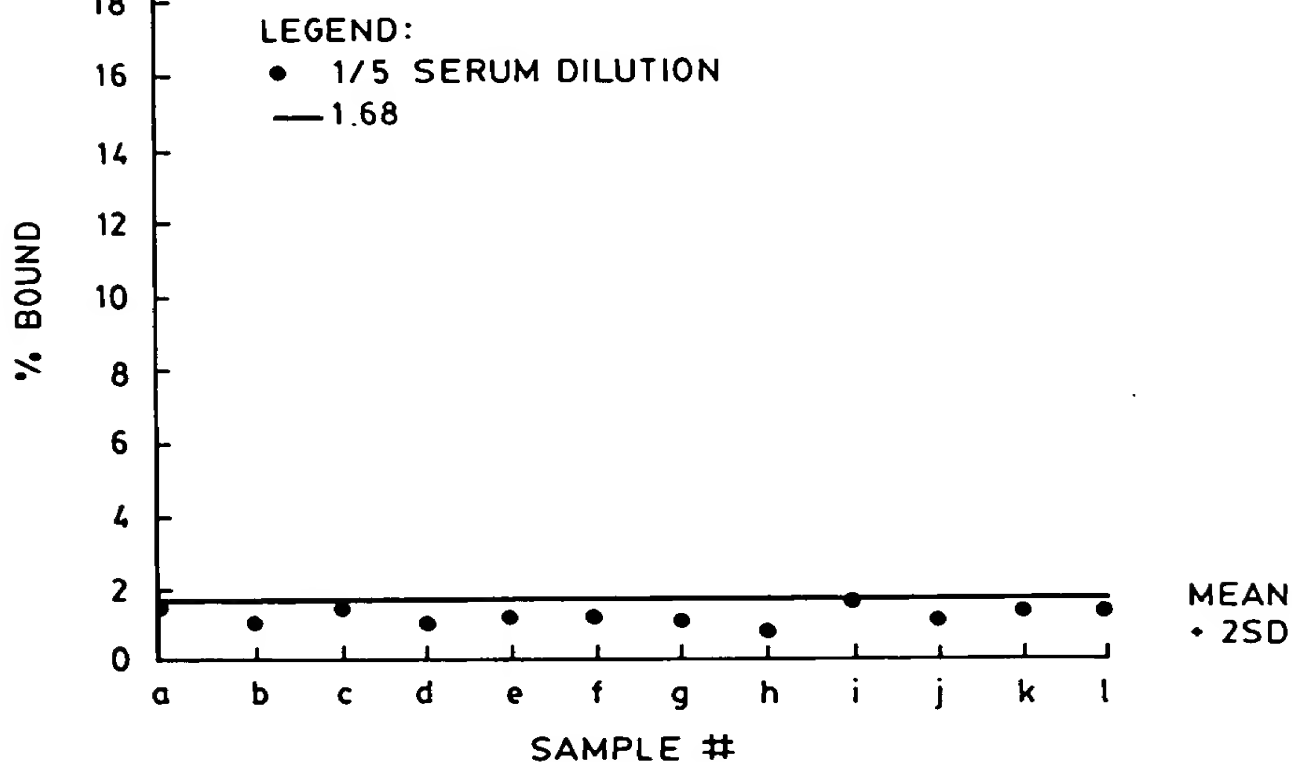


FIG. 11

Analysis of 20 Sera from Human Breast Cancer Patients
Serial Samples Assayed in the Sandwich IRMA

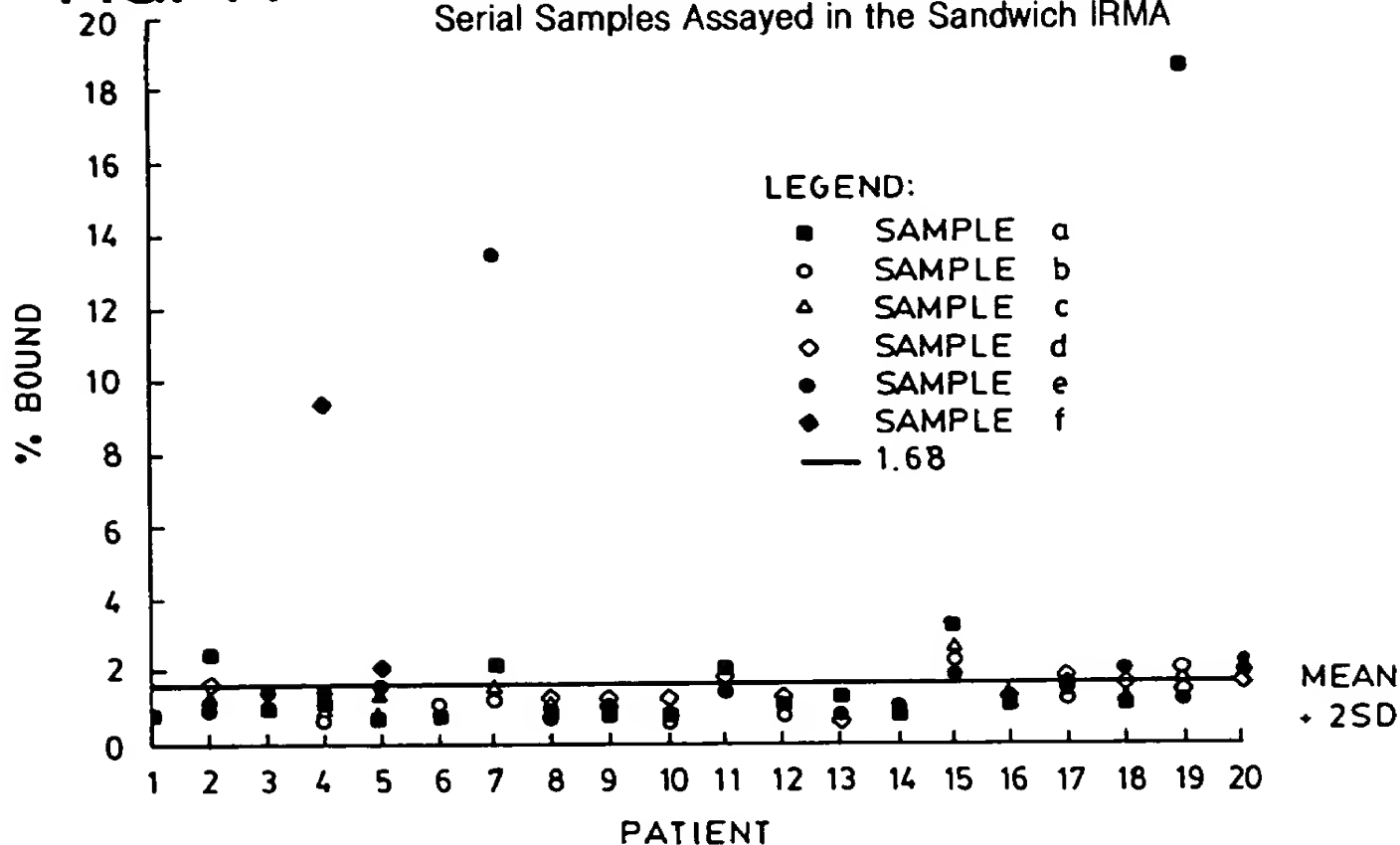
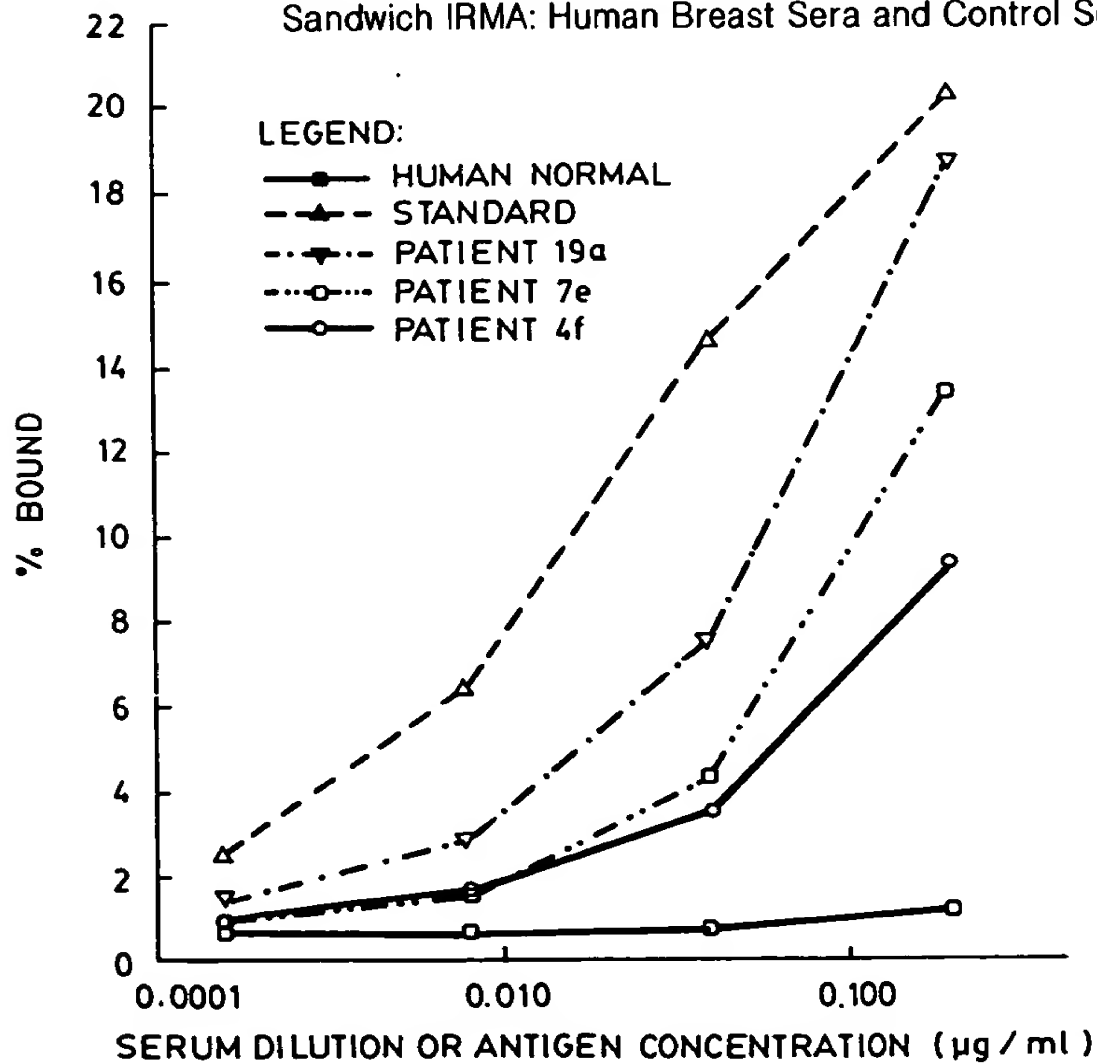


FIG. 12

Sandwich IRMA: Human Breast Sera and Control Sera



09769500-004700-80569260

FIG. 13

C-erbB-2 Competition ELISA Tab 251 Binding to NIH3T3t Lysate

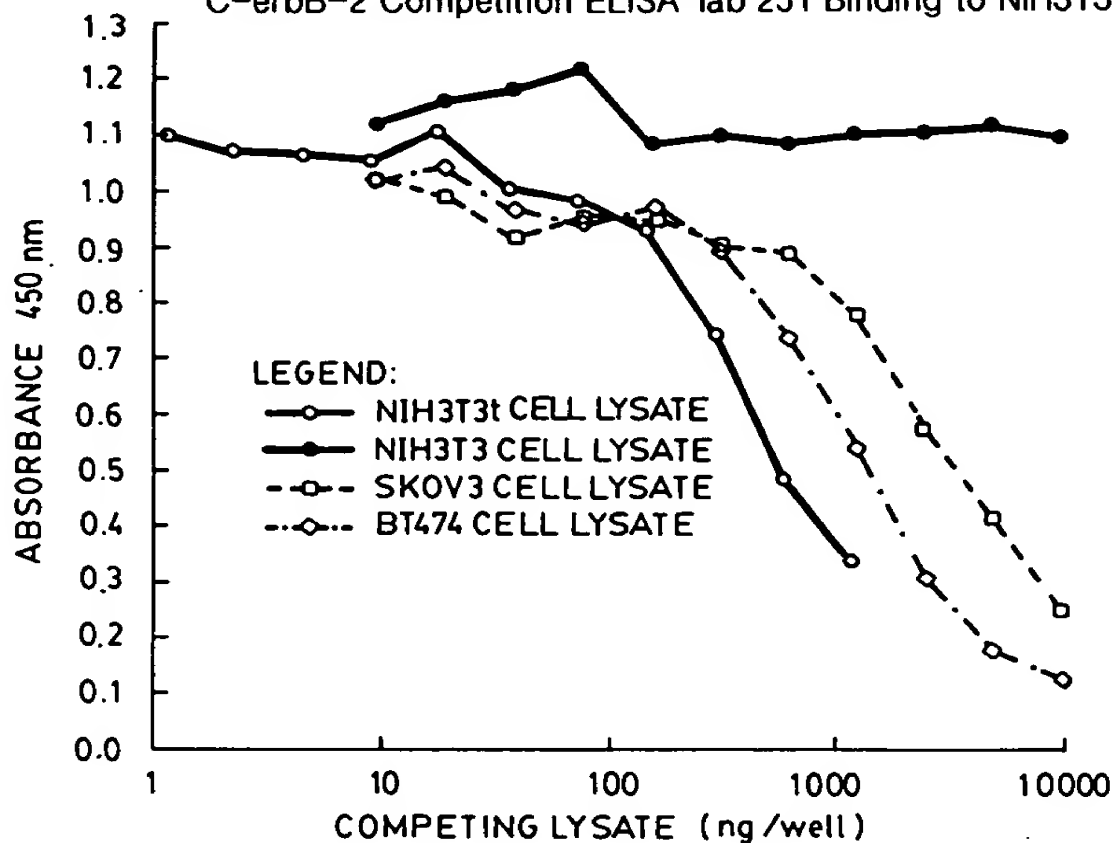
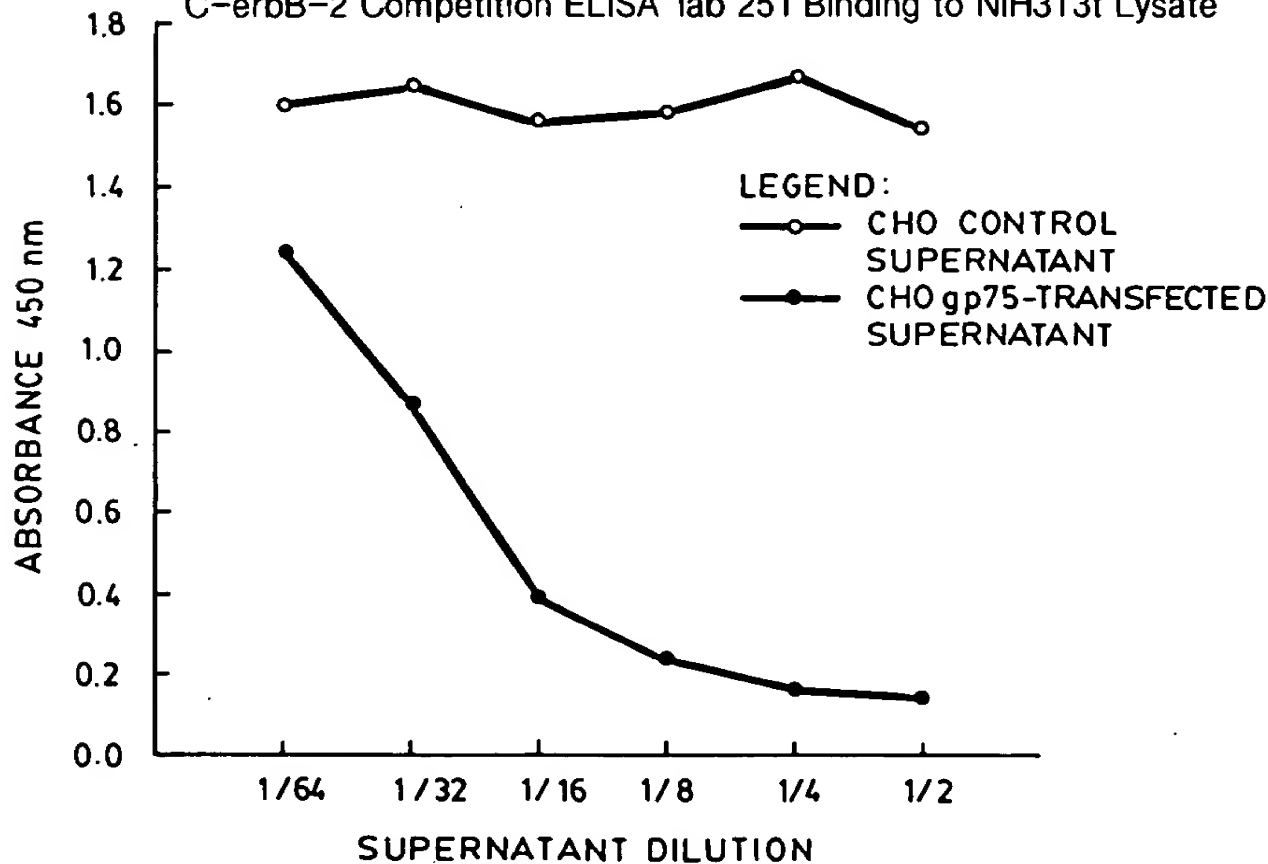


FIG. 14

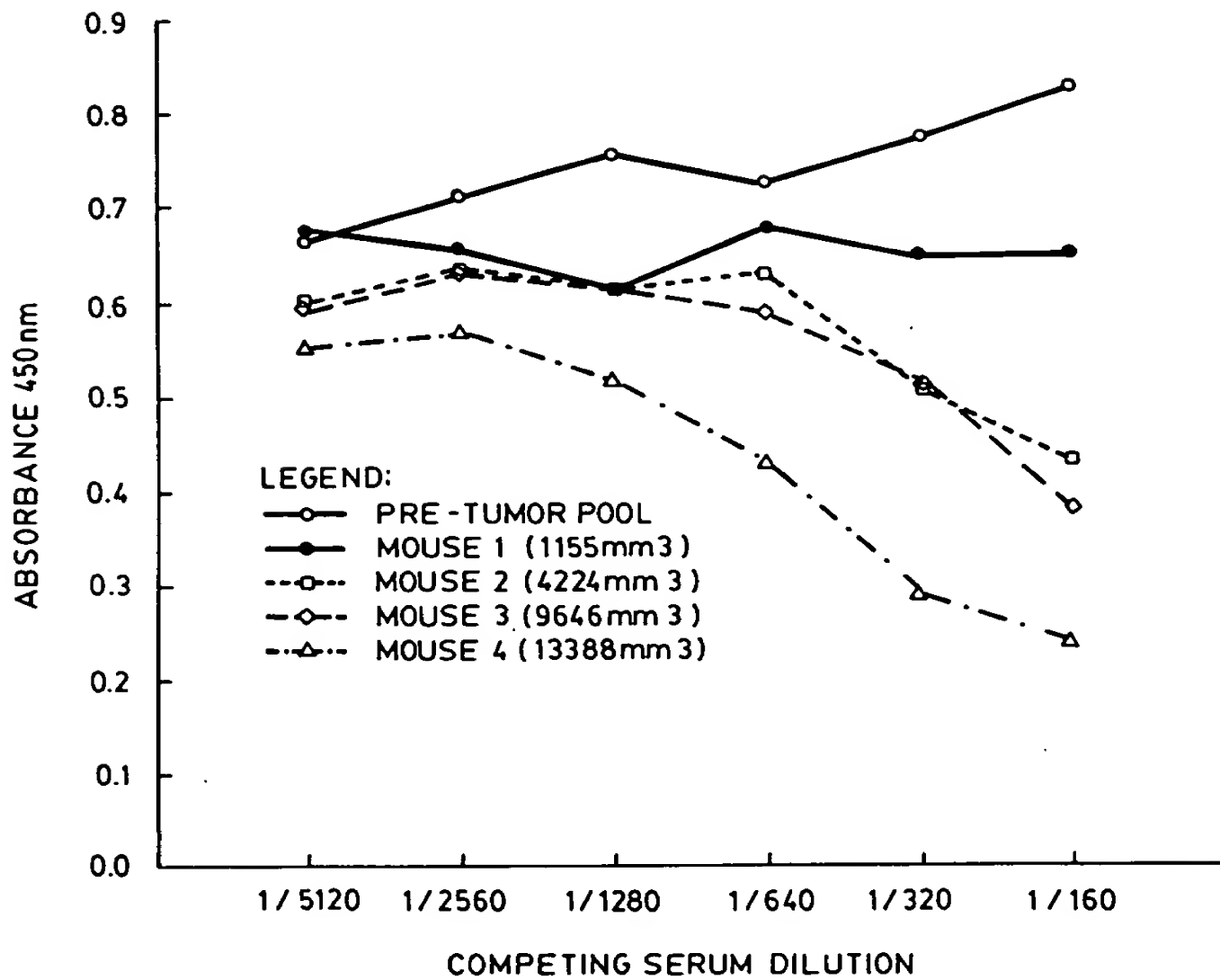
C-erbB-2 Competition ELISA Tab 251 Binding to NIH3T3t Lysate



00969260

FIG. 15

C-erbB-2 Competition ELISA Tab 251 Binding to NIH3T3t Lysate



097550.004704

1 AATTCTCGAGCTCGTCGACCGGTTCGACGAGCTCGAGGGTTCGACGAGC
1 10
MetGluLeuAlaAlaLeuCysArgTrpGlyLeuLeuLeuAlaLeuLe
151 ATGGAGCTGGCGGCCTTSTGCGCTGGGGGCTCCTCCTCGCCCTCTT
60
GlnGlyCysGlnValValGlnGlyAsnLeuGluLeuThrTyrLeuPr
301 CAGGGCTGCCAGGTGGTGCAGGGAAACCTGGAACCTCACCTACCTGCC
110
IleValArgGlyThrGlnLeuPheGluAspAsnTyrAlaLeuAlaVa
451 ATGTGCGAGGCACCCAGCTCTTTGAGGACAACCTATGCCCTGGCCGT
160
GlyGlyValLeuIleGlnArgAsnProGlnLeuCysTyrGlnAspTh
601 GGAGGGGTCTTGATCCAGCGGAACCCCGAGCTCTGCTACCAGGACAC
210
GlySerArgCysTrpGlyGluSerSerGluAspCysGlnSerLeuTh
751 GGCTCCCGCTGCTGGGGAGAGAGTTCTGAGGATTGTTCAGAGCCTGAC
260
AspCysLeuAlaCysLeuHisPheAsnHisSerGlyIleCysGluLe
901 GACTGCTGGCCTGCTCCACTTCAACCACAGTGGCATCTGTGAGCT
310
TyrAsnTyrLeuSerThrAspValGlySerCysThrLeuValCysPr
1051 TACAACCTACCTTTCTACGGACGTGGGATCCTGCAACCCTCGTCTGCC
360
ArgGluValArgAlaValThrSerAlaAsnIleGlnGluPheAlaGl
1201 CGAGAGGTGAGGGCAGTTACCAGTGCCAATATCCAGGAGTTTGCTGG
410
GluThrLeuGluGluIleThrGlyTyrLeuTyrIleSerAlaTrpPr
1351 GAGACTCTGGAAGAGATCACAGGTTACCTATACATCTCAGCATGGCC
460
SerTrpLeuGlyLeuArgSerLeuArgGluLeuGlySerGlyLeuAl
1501 AGCTGGCTGGGGCTGCGCTCACTGAGGGAACCTGGGCAGTGGACTGGC
510
GluAspGluCysValGlyGluGlyLeuAlaCysHisGlnLeuCysAl
1651 GAGGACGAGTGTGTGGGCGAGGGCCTGGCCTGCCACCAGCTGTGCGC
560
ProArgGluTyrValAsnAlaArgHisCysLeuProCysHisProGl
1801 CCCAGGGAGTATGTGAATGCCAGGCACTGTTTGCCGTGCCACCCTGA
610
ProSerGlyValLysProAspLeuSerTyrMetProIleTrpLysPh
1951 CCCAGCGGTGTGAAACCTGACCTCTCCTACATGCCCATCTGGAAGTT

FIG. 16A

TCGAGGGCGCGCGCCCCGGCCCCCACCCTCGCAGCACCCCGCGCCCCCGC

20 30
uProProGlyAlaAlaSerThrGlnValCysThrGlyThrAspMetLysLe
GCCCCCGGAGCCGCGAGCACCCAAGTGTGACCGGCACAGACATGAAGCT

70 80
oThrAsnAlaSerLeuSerPheLeuGlnAspIleGlnGluValGlnGlyTy
CACCAATGCCAGCCTGTCCTTCCTGCAGGATATCCAGGAGGTGCAGGGCTA

120 130
lLeuAspAsnGlyAspProLeuAsnAsnThrThrProValThrGlyAlaSe
GCTAGACAATGGAGACCCGCTGAACAATACCACCCCTGTCACAGGGGCCTC

170 180
rIleLeuTrpLysAspIlePheHisLysAsnAsnGlnLeuAlaLeuThrLe
GATTTTGTGGAAGGACATCTTCCACAAGAACAACCAGCTGGCTCTCACACT

220 230
rArgThrValCysAlaGlyGlyCysAlaArgCysLysGlyProLeuProTh
GCGCACTGTCTGTGCCGGTGGCTGTGCCCGCTGCAAGGGGGCCACTGCCAC

270 280
uHisCysProAlaLeuValThrTyrAsnThrAspThrPheGluSerMetPr
GCACTGCCAGCCCTGGTCACCTACAACACAGACACGTTTGAGTCCATGCC

320 330
oLeuHisAsnGlnGluValThrAlaGluAspGlyThrGlnArgCysGluLy
CCTGCACAACCAAGAGGTGACAGCAGAGGATGGAACACAGCGGTGTGAGAA

370 380
yCysLysLysIlePheGlySerLeuAlaPheLeuProGluSerPheAspGl
CTGCAAGAAGATCTTTGGGAGCCTGGCATTCTGCCGGAGAGCTTTGATGG

420 430
oAspSerLeuProAspLeuSerValPheGlnAsnLeuGlnValIleArgGl
GGACAGCCTGCCTGACCTCAGCGTCTTCCAGAACCTGCAAGTAATCCGGGG

470 480
aLeuIleHisHisAsnThrHisLeuCysPheValHisThrValProTrpAs
CCTCATCCACCATAACACCCACCTCTGCTTCGTGCACACGGTGCCCTGGGA

520 530
aArgArgAlaLeuLeuGlySerGlyProThrGlnCysValAsnCysSerGl
CCGCAGGGCACTGCTGGGGTCAGGGCCCACCCAGTGTGTCAACTGCAGCCA

570 580
uCysGlnProGlnAsnGlySerValThrCysPheGlyProGluAlaAspGl
GTGTGAGCCCCAGAATGGCTCAGTGACCTGTGTTTGGACCGGAGGCTGACCA

620 630
eProAspGluGluGlyAlaCysGlnProCysProIleAsnCysThrHisSe
TCCAGATGAGGAGGGCGCATGCCAGCCTTGCCCATCAACTGCACCCACTC

FIG. 16B

007650.00404

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CCTCCCAGCCGGGTCCAGCCGGAGCCATGGGGCCGGAGCCGCAGTGAGCACC
                                40                                50
uArgLeuProAlaSerProGluThrHisLeuAspMetLeuArgHisLeuTyr
GCGGCTCCCTGCCAGTCCCGAGACCCACCTGGACATGCTCCGCCACCTCTAC
                                90                                100
rValLeuIleAlaHisAsnGlnValArgGlnValProLeuGlnArgLeuArg
CGTGCTCATCGCTCACAACCAAGTGAGGCAGGTCCCCTGCAGAGGCTGCGG
                                140                                150
rProGlyGlyLeuArgGluLeuGlnLeuArgSerLeuThrGluIleLeuLys
CCCAGGAGGCTGCGGGAGCTGCAGCTTCGAAGCCTCACAGAGATCTTGAAA
                                190                                200
uIleAspThrAsnArgSerArgAlaCysHisProCysSerProMetCysLys
GATAGACACCAACCGCTCTCGGGCCCTGCCACCCCTGTTCTCCGATGTGTAAG
                                240                                250
rAspCysCysHisGluGlnCysAlaAlaGlyCysThrGlyProLysHisSer
TGACTGCTGCCATGAGCAGTGTGCTGCCGGCTGCACGGGGCCCAAGCACTCT
                                290                                300
oAsnProGluGlyArgTyrThrPheGlyAlaSerCysValThrAlaCysPro
CAATCCCGAGGGCCGGTATACATTGCGCGCCAGCTGTGTGACTGCCTGTCCC
                                340                                350
sCysSerLysProCysAlaArgValCysTyrGlyLeuGlyMetGluHisLeu
GTGCAGCAAGCCCTGTGCCCCGAGTGTGCTATGGTCTGGGCATGGAGCACTTG
                                390                                400
yAspProAlaSerAsnThrAlaProLeuGlnProGluGlnLeuGlnValPhe
GGACCCAGCCTCCAACACTGCCCCGCTCCAGCCAGAGCAGCTCCAAGTGTTT
                                440                                450
yArgIleLeuHisAsnGlyAlaTyrSerLeuThrLeuGlnGlyLeuGlyIle
ACGAATTCTGCACAATGGCGCCTACTCGCTGACCCTGCAAGGGCTGGGCATC
                                490                                500
pGlnLeuPheArgAsnProHisGlnAlaLeuLeuHisThrAlaAsnArgPro
CCAGCTCTTTCGGAACCCGCACCAAGCTCTGCTCCACACTGCCAACCGGCCA
                                540                                550
nPheLeuArgGlyGlnGluCysValGluGluCysArgValLeuGlnGlyLeu
GTTCTTCGGGGCCAGGAGTGCCTGGAGGAATGCCGAGTACTGCAGGGGCTC
                                590                                600
nCysValAlaCysAlaHisTyrLysAspProProPheCysValAlaArgCys
GTGTGTGGCCTGTGCCCCACTATAAGGACCCTCCCTTCTGCGTGGCCCCGCTGC
                                640                                650
rCysValAspLeuAspAspLysGlyCysProAlaGluGlnArgAlaSerPro
CTGTGTGGACCTGGATGACAAGGGCTGCCCGCCGAGCAGAGAGCCAGCCCT

```



FIG. 16C

660
 2101 LeuThrSerIleValSerAlaValValGlyIleLeuLeuValValVa
 CTGACGTCCATCGTCTCTGCGGTGGTTGGCATTCTGCTGGTCGTGGT
 710
 2251 ThrProSerGlyAlaMetProAsnGlnAlaGlnMetArgIleLeuLy
 ACACCTAGCGGAGCGATGCCCAACCAGGCGCAGATGCGGATCCTGAA
 760
 2401 AlaIleLysValLeuArgGluAsnThrSerProLysAlaAsnLysGl
 GCCATCAAAGTGTTGAGGGAAAACACATCCCCCAAAGCCAACAAAGA
 810
 2551 MetProTyrGlyCysLeuLeuAspHisValArgGluAsnArgGlyAr
 ATGCCCTATGGCTGCTCTTAGACCATGTCCGGGAAAACCGCGGACG
 860
 2701 ValLeuValLysSerProAsnHisValLysIleThrAspPheGlyLe
 GTGCTGGTCAAGAGTCCCAACCATGTCAAATTACAGACTTCGGGCT
 910
 2851 HisGlnSerAspValTrpSerTyrGlyValThrValTrpGluLeuMe
 CACCAGAGTGATGTGTGGAGTTATGGTGTGACTGTGTGGGAGCTGAT
 △
 3001 ValTyrMetIleMetValLysCysTrpMetIleAspSerGluCysAr
 GTCTACATGATCATGGTCAAATGTTGGATGATTGACTCTGAATGTCG
 1010
 3151 AspSerThrPheTyrArgSerLeuLeuGluAspAspAspMetGlyAs
 GACAGCACCTTCTACCGCTCACTGCTGGAGGACGATGACATGGGGGA
 1060
 3301 SerThrArgSerGlyGlyGlyAspLeuThrLeuGlyLeuGluProSe
 TCTACCAGGAGTGGCGGTGGGGACCTGACACTAGGGCTGGAGCCCTC
 1110
 3451 LeuProThrHisAspProSerProLeuGlnArgTyrSerGluAspPr
 CTCCCCACACATGACCCAGCCCTCTACAGCGGTACAGTGAGGACCC
 1160
 3601 SerProArgGluGlyProLeuProAlaAlaArgProAlaGlyAlaTh
 TCGCCCCGAGAGGGCCCTCTGCCTGCTGCCCCGACCTGCTGGTGCCAC
 1210
 3751 GlyGlyAlaAlaProGlnProHisProProProAlaPheSerProAl
 GGAGGAGCTGCCCTCAGCCCCACCCTCCTCCTGCCTTCAGCCCAGC
 1255
 LeuAspValProValEND
 3901 CTGGACGTGCCAGTGTGAACCAGAAGGCCAAGTCCGCAGAAGCCCTG
 4051 CTAAGGAACCTTCCTTCCTGCTTGAGTTCCCAGATGGCTGGAAGGGG
 4201 CCCTTTCCTTCAGATCCTGGGTACTGAAAGCCTTAGGGAAGCTGGC
 4351 ATGGTGTGAGTATCCAGGCTTTGTACAGAGTGCTTTTCTGTTTAGTT
 4501 TTGTCCATTTGCAAATATATTTTGGAAAACAAAAA

FIG. 16D

00769500-007704

670 680
lLeuGlyValValPheGlyIleLeuIleLysArgArgGlnGlnLysIleAr
CTTGGGGGTGGTCTTTGGGATCCTCATCAAGCGACGGCAGCAGAAGATCCG

720 730
sGluThrGluLeuArgLysValLysValLeuGlySerGlyAlaPheGlyTh
AGAGACGGAGCTGAGGAAGGTGAAGGTGCTTGGATCTGGCGCTTTTGGCAC

770 780
uIleLeuAspGluAlaTyrValMetAlaGlyValGlySerProTyrValSe
AATCTTAGACGAAGCATACGTGATGGCTGGTGTGGGCTCCCCATATGTCTC

830
gLeuGlySerGlnAspLeuLeuAsnTrpCysMetGlnIleAlaLysGlyMe
CCTGGGCTCCCAGGACCTGCTGAACTGGTGTATGCAGATTGCCAAGGGGAT

870 880
uAlaArgLeuLeuAspIleAspGluThrGluTyrHisAlaAspGlyGlyLy
GGCTCGGCTGCTGGACATTGACGAGACAGAGTACCATGCAGATGGGGGCAA

920 930
tThrPheGlyAlaLysProTyrAspGlyIleProAlaArgGluIleProAs
GACTTTTGGGGCCAAACCTTACGATGGGATCCCAGCCCGGGAGATCCCTGA

970 980
gProArgPheArgGluLeuValSerGluPheSerArgMetAlaArgAspPr
GCCAAGATTCCGGGAGTTGGTGTCTGAATTCTCCCGCATGGCCAGGGACCC

1020 1030
pLeuValAspAlaGluGluTyrLeuValProGlnGlnGlyPhePheCysPr
CCTGGTGGATGCTGAGGAGTATCTGGTACCCCAGCAGGGCTTCTTCTGTCC

1070 1080
rGluGluGluAlaProArgSerProLeuAlaProSerGluGlyAlaGlySe
TGAAGAGGAGGCCCCCAGGTCTCCACTGGCACCCCTCCGAAGGGGCTGGCTC

1120 1130
oThrValProLeuProSerGluThrAspGlyTyrValAlaProLeuThrCy
CACAGTACCCCTGCCCTCTGAGACTGATGGCTACGTTGCCCCCCTGACCTG

1170 1180
rLeuGluArgAlaLysThrLeuSerProGlyLysAsnGlyValValLysAs
TCTGGAAAGGGCCAAGACTCTCTCCCCAGGGAAGAATGGGGTTCGTCAAAGA

1220 1230
aPheAspAsnLeuTyrTyrTrpAspGlnAspProProGluArgGlyAlaPr
CTTCGACAACCTCTATTACTGGGACCAGGACCCACCAGAGCGGGGGGCTCC

ATGTGTCCTCAGGGAGCAGGGAAGGCCTGACTTCTGCTGGCATCAAGAGGT
TCCAGCCTCGTTGGAAGAGGAACAGCACTGGGGAGTCTTTGTGGATTCTGA
CTGAGAGGGGAAGCGGCCCTAAGGGAGTGTCTAAGAACAAAAGCGACCCAT
TTTACTTTTTTTTGTTTTGTTTTTTTTAAAGACGAAATAAAGACCCAGGGGAG